

Multiplying decimals by 10, 100 and 1,000

1 Complete the multiplications.

a)

H	T	O	Tths	Hths
		3	7	

$3.7 \times 10 = \square$

b)

H	T	O	Tths	Hths
	1	4	5	

$14.5 \times 10 = \square$

c)

H	T	O	Tths	Hths
		1	5	8

$1.58 \times 10 = \square$

1

d)

H	T	O	Tths	Hths
	1	3	0	6

$13.06 \times 10 = \square$

What do you notice when you multiply a number by 10?



2

Complete the multiplications.

a) $1.7 \times 10 =$

d) $13.4 \times 10 =$

b) $1.75 \times 10 =$

e) $10 \times 13.04 =$

c) $1.73 \times 10 =$

f) $130.4 \times 10 =$

3 Complete the multiplications.

a)

H	T	O	Tths	Hths
		4	1	

$4.1 \times 100 =$

b)

H	T	O	Tths	Hths
		4	1	5

$4.15 \times 100 =$

c)

H	T	O	Tths	Hths
	1	4	5	

$14.5 \times 100 =$

d)

H	T	O	Tths	Hths
		4	0	5

$4.05 \times 100 =$

What do you notice when you multiply a number by 100?



4

Complete the calculations.

a) $7.2 \times 100 =$

b) $3.4 \times 100 =$

c) $19.5 \times 100 =$

d) $1.89 \times 100 =$

e) $73.57 \times 100 =$

f) $1.317 \times 100 =$

5 Amir has multiplied 3.8 by 1,000



The answer is 3.8000

a) What mistake has Amir made?

b) Work out the correct answer.

$3.8 \times 1,000 =$

6

Complete the multiplications.

a) $4.7 \times 10 =$

$4.7 \times 100 =$

$4.7 \times 1,000 =$

b) $19.3 \times 10 =$

$19.3 \times 100 =$

$1,000 \times 19.3 =$

c) $5.84 \times 10 =$

$5.84 \times 100 =$

$5.84 \times 1,000 =$

d) $18.06 \times 10 =$

$100 \times 18.06 =$

$18.06 \times 1,000 =$

How did you work out the answers? Talk to a partner.



7 Complete the calculations.

a) $7.7 \times \square = 770$

b) $\square \times 10 = 1,950$

c) $11.5 \times \square = 115$

d) $\square \times 11.5 = 11,500$

e) $8.032 \times \square = 80.32$

f) $\square \times 18.3 = 1,830$

g) $195.32 \times \square = 1,953.2$

h) $\square \times 1,000 = 7,200$



8

Tommy is 1.4 m tall.

A tree is 10 times as tall as Tommy.

A building is 100 times as tall as Tommy.

a) How tall is the tree?

 m

b) How much taller is the building than the tree?

 m



9

Match the multiplications to the descriptions.

$$\times 10 \times 10$$

multiply by 10

$$\times 10 \times 10 \times 10$$

$$\times 100 \times 10$$

multiply by 100

$$\times 10 \times 100$$

$$\times 10 \times 1$$

multiply by 1,000